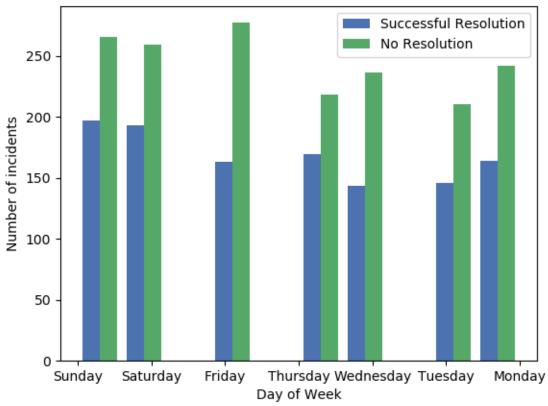
THE ATYPICALITY OF FRIDAY NIGHT ASSAULTS

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For this project, I looked at police report incidents of assaults in San Fransisco over the summer of 2014. I grouped the incidents into two categories: those which were successfully resolved (meaning that the police report listed the incident's resolution as something other than NONE) and those which were not resolved successfully (meaning that the police report listed the incident's resolution as NONE).

Breaking the data down by days of the week reveals that the largest number of unresolved assaults were committed on Friday (Friday also had the *percentage* of unresolved assaults). A histogram of the number of successfully resolved and unresolved assaults by day is displayed below.

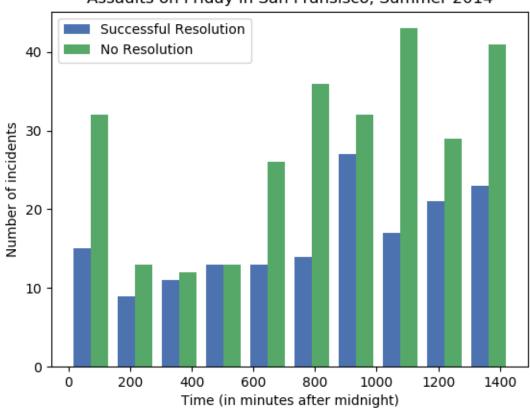
Assaults in San Fransisco, Summer 2014



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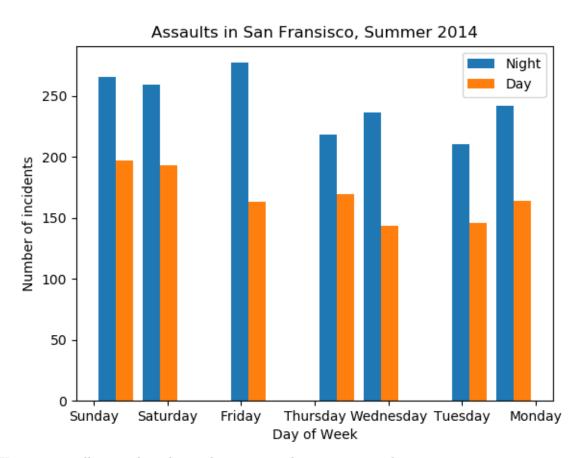
The effect looks too drastic to be explained by random chance. So why are there so many unresolved assaults committed on Friday? Let's dive into Friday's hourly numbers in more detail.





We see that the number of unresolved assaults skyrockets (and the rate of resolution plummets) as it grows later – Friday's atypically large unresolved assault numbers seem to be caused by nighttime assaults.

This analysis suggests that the large number of unresolved assaults on Fridays could be explained by the fact that more nighttime assaults are committed on Fridays than are committed on other days of the week, which may be more difficult to investigate for the police. The following histogram illustrates this discrepency in assaults by time of day.



However initially appealing this explanation may be, it turns out that it is not satisfactory, because running the numbers shows that the police do no have more difficulty resolving nighttime crimes than resolving daytime crimes (in fact, in the data we looked at, a slightly *lower* percentage of daytime crimes are resolved). It must then be that not only are more nighttime assaults committed on Fridays, but that these assaults are somehow different in nature than other nighttime assaults. For example, it seems reasonable to suppose that Americans drink more alcohol on Friday night than on other nights, which could be behind this phenomenon.